City Specification No. 401

Reference to HBFC Section 902

Huntington Beach Fire Department

Minimum Standards for Fire Apparatus Access

SPEED BUMPS/HUMPS

Speed bumps/humps are not allowed as a roadway speed control measure. These devices impose an unnecessary obstacle and hindrance to Fire Department vehicles responding to emergency incidents. Studies indicate that response time increases where these devices exist compared to roadways without speed bumps/humps (Reference Huntington Beach Fire Code [HBFC] Section 902 as amended).

REQUIREMENTS

1. **FIRE APPARATUS ACCESS ROADWAYS**

   1.1 Fire apparatus access roads shall be provided for every residential, commercial and industrial development, facility, building or portion of a building hereafter constructed or moved into within the jurisdiction when any portion of the development, facility, building or any portion of an exterior wall of the first story of the building is located more than 150 feet from the fire apparatus access as measured by an approved route around the exterior of the development, facility or building.

   1.2 Travel over fences, walls, and hedges or through hindering landscaping does not qualify as unobstructed travel.

   1.3. Vehicular or pedestrian gates obstructing required access must be installed per City Specification #403, Fire Access for Pedestrian or Vehicular Security Gates and Buildings.

2. **MINIMUM WIDTHS, HEIGHTS & TURNS FOR FIRE APPARATUS ACCESS ROADWAYS**

   2.1 **Dimensions** - Fire apparatus access roads shall have an unobstructed width of not less than 24 feet and an obstructed vertical clearance of not less than 13 feet, 6 inches. Vertical encroachment shall not exceed the requirements in Diagram 4 of City Specification #401, Minimum Standards of Fire Apparatus Access. Fire access streets, drives or roads adjacent to building fronts in commercial centers shall be not less than 27 feet wide.

   2.2 Parking shall not infringe upon fire apparatus access roadways.

   2.3 Corners must allow for clear travel of a minimum 17 feet inner radius and 45 feet outer radius. Radius must be concentric.

   2.4 When medians are located in roadways, the travel lane width shall be a minimum of 14 feet in each direction.

3. **MINIMUM LENGTHS AND DIMENSIONS FOR TURNAROUNDS FOR FIRE APPARATUS ACCESS ROADWAYS**

3.1 Roads exceeding 150 feet but less than 600 feet in length, and terminating, shall be provided with a radiused or hammerhead turnaround per Diagrams 1, 2 or 3 of City Specification #401, Minimum Standards for Fire Apparatus Access.

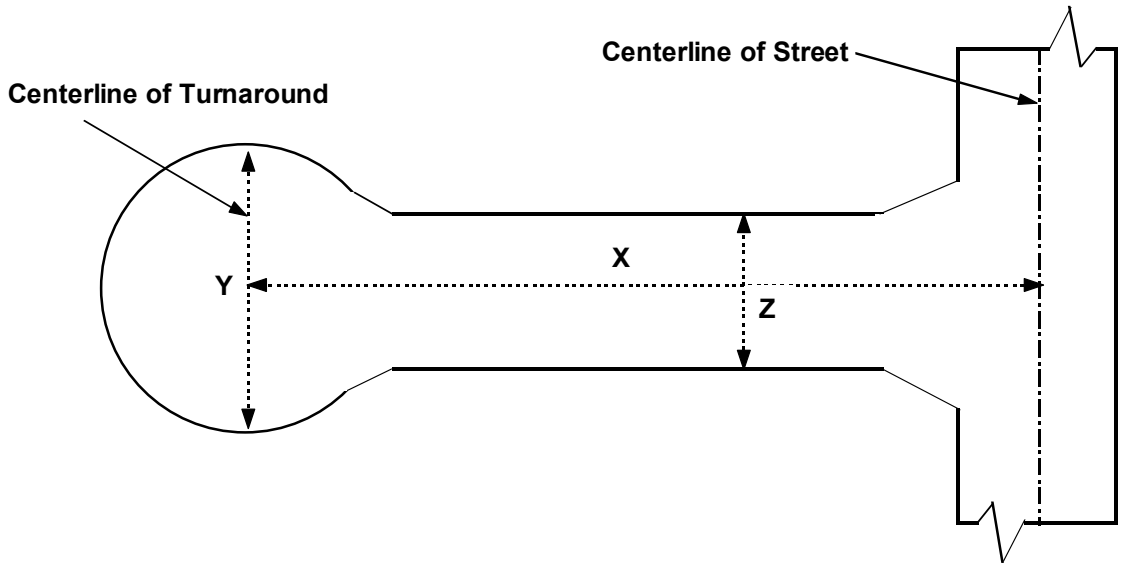
3.2 Roads 600 feet or longer in length **may not** terminate in a radius or hammerhead turnabout, but must become part of an inter-tying loop circulation system.

- Roads between 151 feet and 299 feet in length, and terminating, shall have a minimum "Y" dimension of 62 feet. No parking is permitted in cul-de-sac when "Y" is less than 80 feet.
- Roads between 300 feet and 599 feet in length, and terminating, shall have a minimum "Y" dimension of 80 feet.
- If parallel parking is permitted or possible **on one side** only, "Z" dimension must be at least 32 feet.

  Exception: Mini storage warehouse complexes – width may be 28 feet with temporary parking on one side only. (Reference City Specification #415 – Fire Lanes and Access Roads on Private, Residential, Commercial and Industrial Properties.)

- If parallel parking is permitted or possible on BOTH SIDES, "Z" dimension must be at least 40 feet.

X = Centerline of street to centerline of cul-de-sac.
Y = Curb-face to curb-face of cul-de-sac.
Z = Curb-face to curb-face of street.



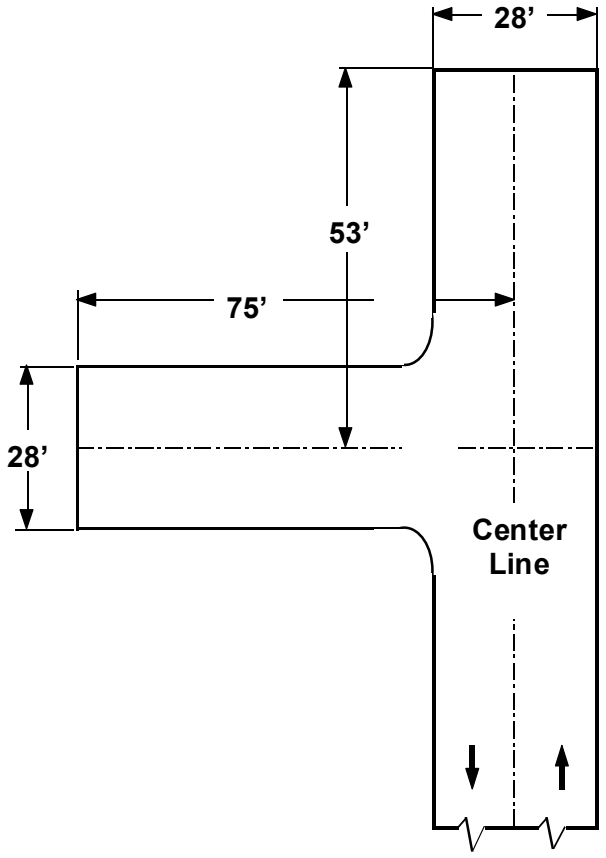
Minimum Standards for Fire Apparatus Access

DIAGRAM 1

MINIMUM HAMMERHEAD TURNAROUND "L" TURN

REQUIREMENTS

Fire Apparatus access roads shall be maintained in accordance with Section 902. For street widths less than 28 feet, refer to Diagram 3, Minimum Hammerhead Turnaround "T" Turn, for corner radius design.



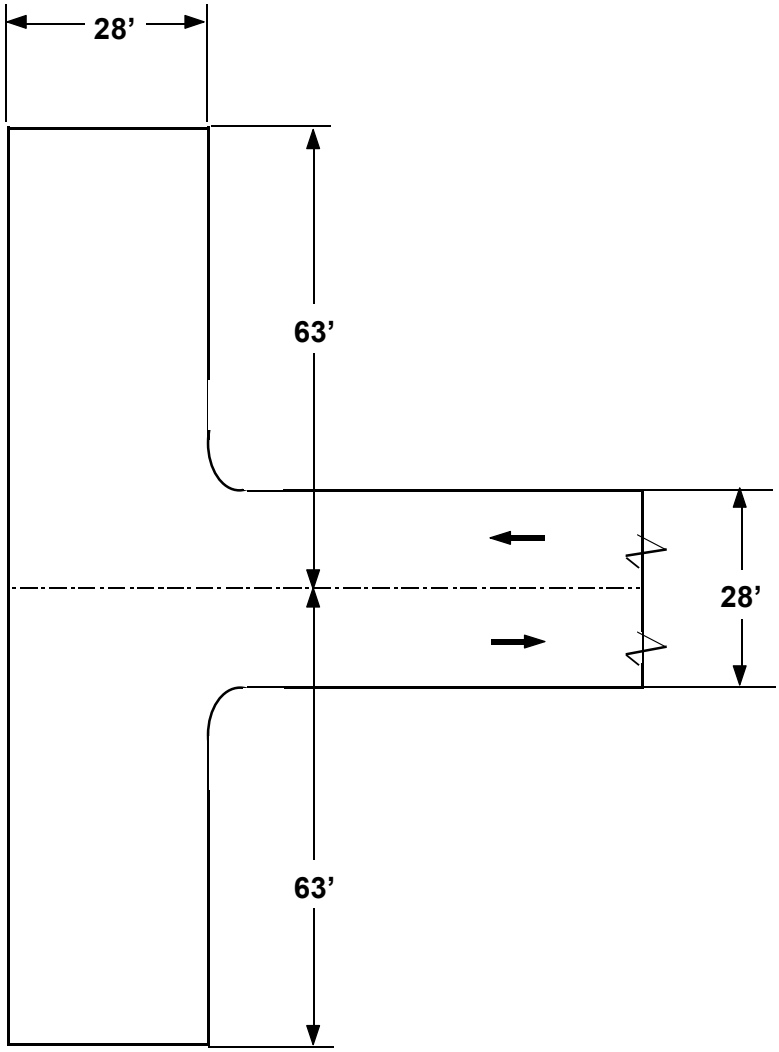
Minimum Standards for Fire Apparatus Access

DIAGRAM 2

MINIMUM HAMMERHEAD TURNAROUND "T" TURN

REQUIREMENTS

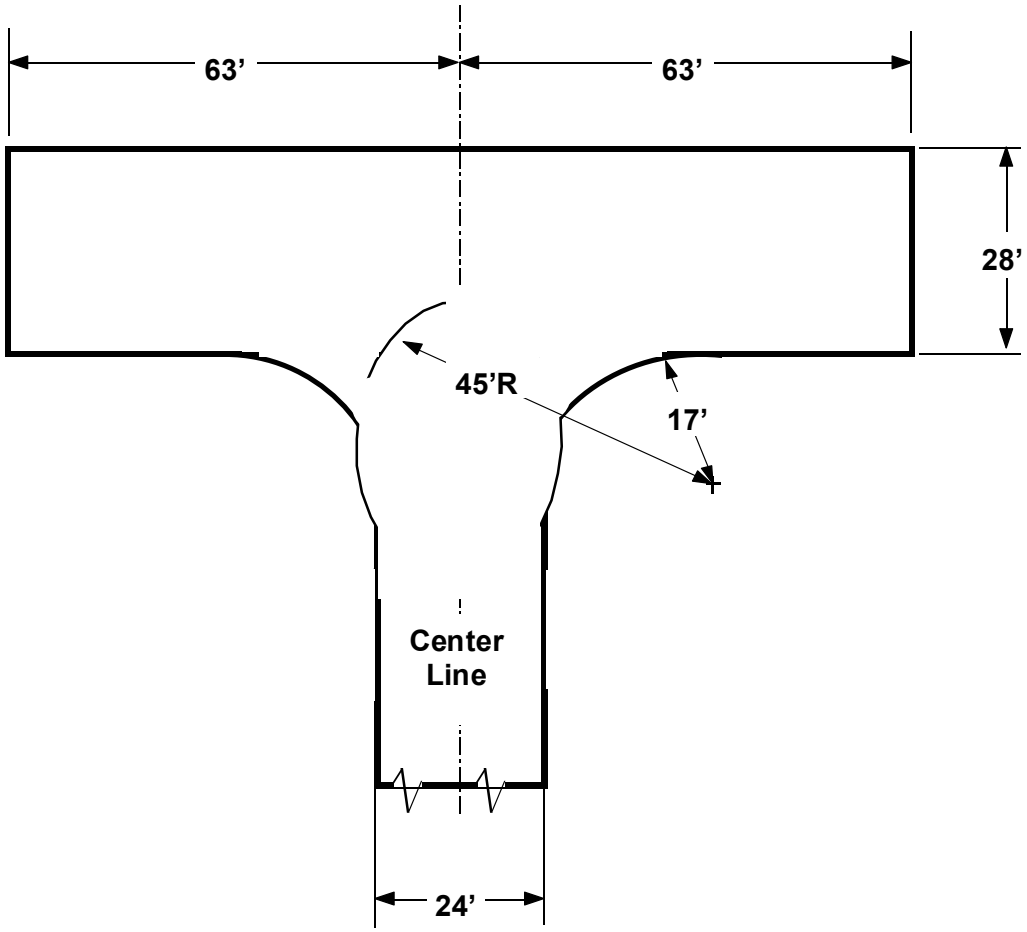
Fire apparatus access roads shall be maintained in accordance with Section 902. For street widths less than 28 feet, refer to Diagram 3, Minimum Hammerhead Turnaround "T" Turn, for corner radius design.



Minimum Standards for Fire Apparatus Access

DIAGRAM 3

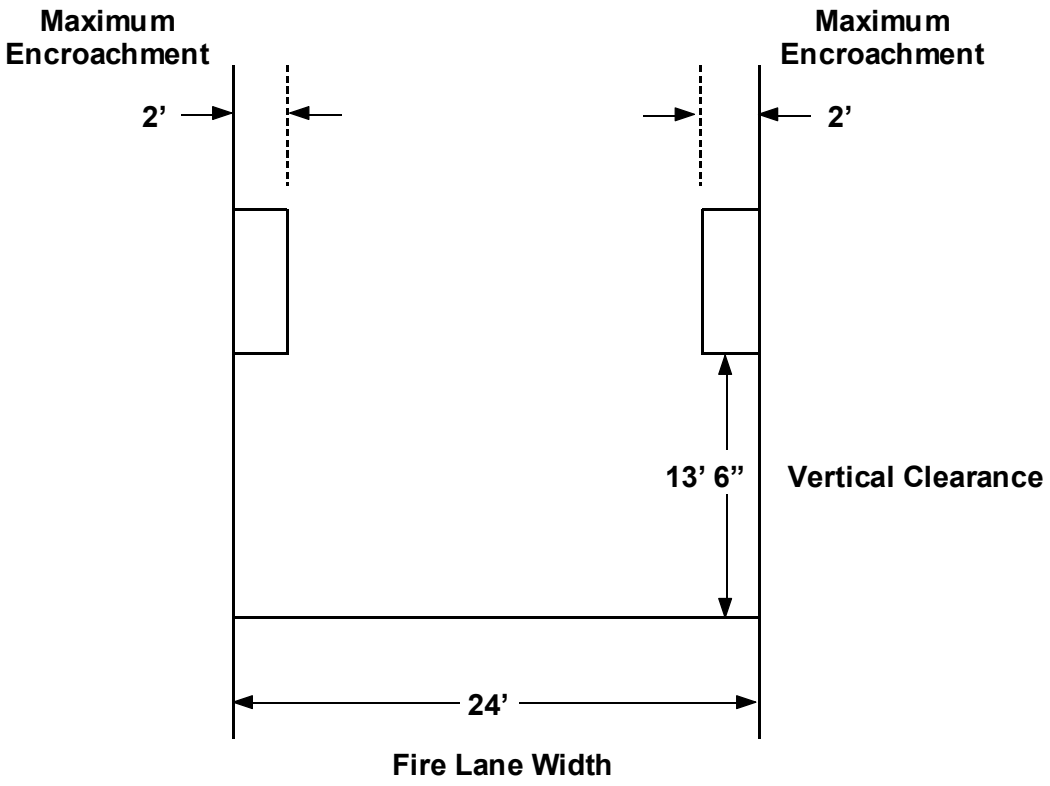
MINIMUM HAMMERHEAD TURNAROUND "T" TURN – CORNER RADIUS DESIGN IF ONE STREET IS LESS THAN 28 FEET WIDE



Minimum Standards for Fire Apparatus Access

DIAGRAM 4

CLEAR TO SKY ENCROACHMENT



APPROVED: _____ DATE: _____

Duane S. Olson, Fire Chief